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IEEE STD	IEEE Standard		Web Intelligence, 2003. WI 2003. Proceedings. IEEE/WIC International Conference on 13-17 Oct. 2003 Page(s):292 - 300
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		3	Wutiwiwatchai, C.; Furui, S.; Automatic Speech Recognition and Understanding, 2003. ASRU '03. 2003 IEEE Works 30 Nov3 Dec. 2003 Page(s):566 - 571
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1 Data mining: Mining the peanut gallery: opinion extraction and semantic classification of product reviews



Kushal Dave, Steve Lawrence, David M. Pennock

May 2003 Proceedings of the 12th international conference on World Wide Web

Full text available: 📆 pdf(327,95 KB)

Additional Information: full citation, abstract, references, citings, index terms

The web contains a wealth of product reviews, but sifting through them is a daunting task. Ideally, an opinion mining tool would process a set of search results for a given item, generating a list of product attributes (quality, features, etc.) and aggregating opinions about each of them (poor, mixed, good). We begin by identifying the unique properties of this problem and develop a method for automatically distinguishing between positive and negative reviews. Our classifier draws on information ...

Keywords: document classification, opinion mining

Effects of adjective orientation and gradability on sentence subjectivity Vasileios Hatzivassiloglou, Janyce M. Wiebe July 2000 Proceedings of the 17th conference on Computational linguistics - Volume 1



Full text available: pdf(692.97 KB) Additional Information: full citation, abstract, references, citings

Subjectivity is a pragmatic, sentence-level feature that has important implications for text processing applications such as information extraction and information retrieval. We study the effects of dynamic adjectives, semantically oriented adjectives, and gradable adjectives on a simple subjectivity classifier, and establish that they are strong predictors of subjectivity. A novel trainable method that statistically combines two indicators of gradability is presented and evaluated, complementin ...

Measuring praise and criticism: Inference of semantic orientation from association Peter D. Turney, Michael L. Littman October 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 4



Full text available: mg pdf(640,81 KB) Additional Information: full citation, abstract, references, index terms

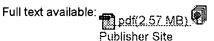
The evaluative character of a word is called its semantic orientation. Positive semantic orientation indicates praise (e.g., "honest", "intrepid") and negative semantic orientation indicates criticism (e.g., "disturbing", "superfluous"). Semantic orientation varies in both direction (positive or negative) and degree (mild to strong). An automated system for

measuring semantic orientation would have application in text classification, text filtering. tracking opinions in online discussions ...

Keywords: latent semantic analysis, mutual information, semantic association, semantic orientation, text classification, text mining, unsupervised learning, web mining

Word sense disambiguation using a second language monolingual corpus Ido Dagan, Alon Itai

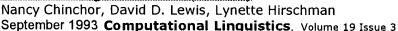


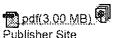


Additional Information: full citation, abstract, references, citings

This paper presents a new approach for resolving lexical ambiguities in one language using statistical data from a monolingual corpus of another language. This approach exploits the differences between mappings of words to senses in different languages. The paper concentrates on the problem of target word selection in machine translation, for which the approach is directly applicable. The presented algorithm identifies syntactic relations between words, using a source language parser, and maps t ...

5 Evaluating message understanding systems: an analysis of the third message understanding conference (MUC-3)

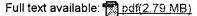




Full text available: pdf(3.00 MB) Additional Information: full citation, abstract, references, citings

This paper describes and analyzes the results of the Third Message Understanding Conference (MUC-3). It reviews the purpose, history, and methodology of the conference, summarizes the participating systems, discusses issues of measuring system effectiveness, describes the linguistic phenomena tests, and provides a critical look at the evaluation in terms of the lessons learned. One of the common problems with evaluations is that the statistical significance of the results is unknown. In the disc ...

Information extraction as a basis for high-precision text classification Ellen Riloff, Wendy Lehnert July 1994 ACM Transactions on Information Systems (TOIS), Volume 12 Issue 3



Additional Information: full citation, abstract, references, citings, index terms, review

We describe an approach to text classification that represents a compromise between traditional word-based techniques and in-depth natural language processing. Our approach uses a natural language processing task called "information extraction" as a basis for highprecision text classification. We present three algorithms that use varying amounts of extracted information to classify texts. The relevancy signatures algorithm uses linguistic phrases; the a ...

Keywords: information extraction, text classification

Discourse and dialogue: An acquisition model for both choosing and resolving anaphora in conjoined Mandarin Chinese sentences Benjamin L. Chen, Von-Wun Soo



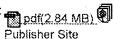
Full text available: pdf(442.16 KB) Additional Information: full citation, abstract, references

Anaphoric reference is an important linguistic phenomenon to understand the discourse structure and content. In Chinese natural language processing, there are both the problems of choosing and resolving anaphora. In Mandarin Chinese, several linguists have attempted to propose criteria to explain the phenomenon of anaphora but with controversial results. On the other hand, search-based computational techniques for resolving anaphora are neither the best way to resolve Chinese anaphora nor to fac ...

Keywords: anaphoric reference, case based learning, natural language acquisition, semantic roles (case)

Automatic verb classification based on statistical distributions of argument structure Paola Merlo, Suzanne Stevenson





September 2001 Computational Linguistics, Volume 27 Issue 3

Full text available: pdf(2.84 MB) Additional Information: full citation, abstract, references, citings

Automatic acquisition of lexical knowledge is critical to a wide range of natural language processing tasks. Especially important is knowledge about verbs, which are the primary source of relational information in a sentence---the predicate-argument structure that relates an action or state to its participants (i.e., who did what to whom). In this work, we report on supervised learning experiments to automatically classify three major types of English verbs, based on their argument structure--sp ...

Flexible parsing of discretely uttered sentences

Luigi Borghesi, Chiara Favareto

July 1982 Proceedings of the 9th conference on Computational linguistics - Volume 1

Full text available: pdf(286.46 KB) Additional Information: full citation, abstract, references

In this paper we describe a syntactic semantic parser of spoken sentences pertaining to a subset of natural Italian language. Error-free and fast analysis, partial interpretation ability, man-machine dialogue trend, different semantic environment adaptability and natural language usage are its main characteristics. All of these features are supported by a technique of input reliability evaluation. Particular attention is devoted to the description of the knowledge internal representation and of ...

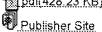
10 Automatic semantic classification of verbs from their syntactic contexts: an implemented classifier for stativity



Michael R. Brent

April 1991 Proceedings of the fifth conference on European chapter of the Association for Computational Linguistics

Full text available: pdf(428.23 KB)



Additional Information: full citation, abstract, references, citings

This paper discusses an implemented program that automatically classifies verbs into those that describe only states of the world, such as to know, and those that describe events, such as to look. It works by exploiting the constraint between the syntactic environments in which a verb can occur and its meaning. The only input is on-line text. This demonstrates an important new technique for the automatic generation of lexical databases.

11 Qusetion answering: Structured use of external knowledge for event-based open domain question answering



Hui Yang, Tat-Seng Chua, Shuguang Wang, Chun-Keat Koh July 2003 -

Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(287.93 KB)

Additional Information: full citation, abstract, references, citings, index terms

One of the major problems in question answering (QA) is that the queries are either too brief or often do not contain most relevant terms in the target corpus. In order to overcome this problem, our earlier work integrates external knowledge extracted from the Web and WordNet to perform Event-based QA on the TREC-11 task. This paper extends our approach to perform event-based QA by uncovering the structure within the external knowledge. The knowledge structure loosely models different facets of ...

Keywords: event-based QA, query formulation, question answering

12 Special issue: Al in engineering

D. Sriram, R. Joobbani

January 1985 ACM SIGART Bulletin, Issue 91

Full text available: pdf(8.79 MB)

Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

13 Session 5: Paradoxes and semantic representation

Richmond H. Thomason

March 1986 Proceedings of the 1986 conference on Theoretical aspects of reasoning about knowledge

Full text available: pdf(1.24 MB)

Additional Information: full citation, abstract, references

Many researchers in Computer Science, Linguistics, Logic, and Philosophy have been discovering in various ways that analogues of the Liar paradox pose deep foundational problems for intensional semantics. In this survey paper I state my own view of what the problems are, and try to provide a broad perspective on the issues, with many references to the literature. Although the paper concentrates on developments in Philosophical Logic, I hope that the paper will help all researchers concerned w ...

14 Knowledge representation for commonsense reasoning with text

Kathleen Dahlgren, Joyce McDowell, Edward P. Stabler

September 1989 Computational Linguistics, Volume 15 Issue 3

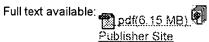
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15 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 Computational Linguistics, Volume 13 Issue 1-2



Additional Information: full citation

16

Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith February 1980 ACM SIGART Bulletin, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

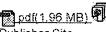
17 Learning methods to combine linguistic indicators: improving aspectual classification



and revealing linguistic insights

Eric V. Siegel, Kathleen R. McKeown

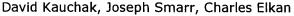
December 2000 Computational Linguistics, Volume 26 Issue 4



Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications. A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

18 Sources of Success for Boosted Wrapper Induction

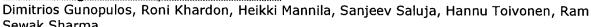


December 2004 The Journal of Machine Learning Research, Volume 5

Full text available: ndf(281.46 KB) Additional Information: full citation, abstract, index terms

In this paper, we examine an important recent rule-based information extraction (IE) technique named Boosted Wrapper Induction (BWI) by conducting experiments on a wider variety of tasks than previously studied, including tasks using several collections of natural text documents. We investigate systematically how each algorithmic component of BWI, in particular boosting, contributes to its success. We show that the benefit of boosting arises from the ability to reweight examples to learn specifi ...

19 Discovering all most specific sentences



June 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 2

Full text available: pdf(283.09 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data mining can be viewed, in many instances, as the task of computing a representation of a theory of a model or a database, in particular by finding a set of maximally specific sentences satisfying some property. We prove some hardness results that rule out simple approaches to solving the problem. The a priori algorithm is an algorithm that has been successfully applied to many instances of the problem. We analyze this algorithm, and prove that is optimal when the maximally specific sen ...

Keywords: Data mining, association rules, learning with membership queries, maximal frequent sets, minimal keys

Multidocument summarization: An added value to clustering in interactive retrieval

Manuel J. Maña-López, Manuel De Buenaga, José M. Gómez-Hidalgo April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2



Full text available: pdf(199.91 KB)

Additional Information: full citation, abstract, references, index terms, review

A more and more generalized problem in effective information access is the presence in the same corpus of multiple documents that contain similar information. Generally, users may be interested in locating, for a topic addressed by a group of similar documents, one or several particular aspects. This kind of task, called instance or aspectual retrieval, has been explored in several TREC Interactive Tracks. In this article, we propose in addition to the classification capacity of clustering techn ...

Keywords: Multidocument summarization, topic segmentation

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21 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy June 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 2

Full text available: pdf(3.83 MB)

Additional Information: full citation, references, citings, index terms

22 Spoken dialogue technology: enabling the conversational user interface Michael F. McTear



March 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 1

Full text available: pdf(987.69 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

23 Semantics and pragmatics: An integrated syntactic and semantic system for natural landuage understanding



Frédérique Segond, Karen Jensen

August 1992 Proceedings of the 14th conference on Computational linguistics - Volume

Full text available: pdf(499.02 KB)

Additional Information: full citation, references

24 Special issue on word sense disambiguation: Using corpus statistics and WordNet relations for sense identification Claudia Leacock, George A. Miller, Martin Chodorow



March 1998 Computational Linguistics, Volume 24 Issue 1

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings

Corpus-based approaches to word sense identification have flexibility and generality but suffer from a knowledge acquisition bottleneck. We show how knowledge-based techniques can be used to open the bottleneck by automatically locating training corpora. We describe a statistical classifier that combines topical context with local cues to identify a word sense. The classifier is used to disambiguate a noun, a verb, and an adjective. A knowledge base in the form of WordNet's lexical relations is ...

25 Extracting classification knowledge of Internet documents with mining term associations: a semantic approach



Shian-Hua Lin, Chi-Sheng Shih, Meng Chang Chen, Jan-Ming Ho, Ming-Tat Ko, Yueh-Ming Huang

August 1998 Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval

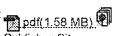
Full text available: pdf(1.02 MB)

Additional Information: full citation, references, citings, index terms

26 Special issue on computational anaphora resolution: A machine learning approach to coreference resolution of noun phrases



Wee Meng Soon, Hwee Tou Ng, Daniel Chung Yong Lim December 2001 Computational Linguistics, Volume 27 Issue 4



Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings

In this paper, we present a learning approach to coreference resolution of noun phrases in unrestricted text. The approach learns from a small, annotated corpus and the task includes resolving not just a certain type of noun phrase (e.g., pronouns) but rather general noun phrases. It also does not restrict the entity types of the noun phrases; that is, coreference is assigned whether they are of "organization," "person," or other types. We evaluate our approach on common data sets (namely, the M ...

27 Institutions: abstract model theory for specification and programming Joseph A. Goguen, Rod M. Burstall January 1992 Journal of the ACM (JACM), Volume 39 Issue 1



Full text available: pdf(3.81 MB)

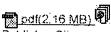
Additional Information: full citation, abstract, references, citings, index terms

There is a population explosion among the logical systems used in computing science. Examples include first-order logic, equational logic, Horn-clause logic, higher-order logic, infinitary logic, dynamic logic, intuitionistic logic, order-sorted logic, and temporal logic; moreover, there is a tendency for each theorem prover to have its own idiosyncratic logical system. The concept of institution is introduced to formalize the informal notion of "logical system.&rdquo ...

28 The interaction of knowledge sources in word sense disambiguation

Mark Stevenson, Yorick Wilks

September 2001 Computational Linguistics, Volume 27 Issue 3



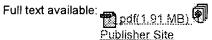
Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references

Word sense disambiguation (WSD) is a computational linguistics task likely to benefit from

the tradition of combining different knowledge sources in artificial in telligence research. An important step in the exploration of this hypothesis is to determine which linguistic knowledge sources are most useful and whether their combination leads to improved results. We present a sense tagger which uses several knowledge sources. Tested accuracy exceeds 94% on our evaluation corpus. Our system attempts ...

²⁹ A stochastic finite-state word-segmentation algorithm for Chinese Richard Sproat, William Gale, Chilin Shih, Nancy Chang September 1996 Computational Linguistics, Volume 22 Issue 3





Additional Information: full citation, abstract, references, citings

The initial stage of text analysis for any NLP task usually involves the tokenization of the input into words. For languages like English one can assume, to a first approximation, that word boundaries are given by whitespace or punctuation. In various Asian languages, including Chinese, on the other hand, whitespace is never used to delimit words, so one must resort to lexical information to "reconstruct" the word-boundary information. In this paper we present a stochastic finite-state model whe ...

30 Circumscription with homomorphisms: solving the equality and counterexample problems



Peter K. Rathmann, Marianne Winslett, Mark Manasse September 1994 Journal of the ACM (JACM), Volume 41 Issue 5

Full text available: pdf(4.00 MB)

Additional Information: full citation, abstract, references, index terms

One important facet of common-sense reasoning is the ability to draw default conclusions about the state of the world, so that one can, for example, assume that a given bird flies in the absence of information to the contrary. A deficiency in the circumscriptive approach to common-sense reasoning has been its difficulties in producing default that Tweety # Blutto using ordinary circumscription, or conclude by default that a particular bird fl ...

Keywords: circumscription, common sense reasoning

31 Full Technical Papers: A model of textual affect sensing using real-world knowledge Hugo Liu, Henry Lieberman, Ted Selker



January 2003 Proceedings of the 8th international conference on Intelligent user interfaces

Full text available: pdf(234.54 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents a novel way for assessing the affective qualities of natural language and a scenario for its use. Previous approaches to textual affect sensing have employed keyword spotting, lexical affinity, statistical methods, and hand-crafted models. This paper demonstrates a new approach, using large-scale real-world knowledge about the inherent affective nature of everyday situations (such as "getting into a car accident") to classify sentences into "basic" emotion categories. This co ...

Keywords: affective UI, affective computing, commonsense reasoning, emotions, open mind commonsense, story understanding

32 Text analysis and extraction: Opinion observer: analyzing and comparing opinions on



Bing Liu, Minqing Hu, Junsheng Cheng

May 2005 Proceedings of the 14th international conference on World Wide Web

Full text available: ndf(332.66 KB) Additional Information: full citation, abstract, references, index terms

The Web has become an excellent source for gathering consumer opinions. There are now numerous Web sites containing such opinions, e.g., customer reviews of products, forums, discussion groups, and blogs. This paper focuses on online customer reviews of products. It makes two contributions. First, it proposes a novel framework for analyzing and comparing consumer opinions of competing products. A prototype system called *Opinion Observer* is also implemented. The system is such that with a ...

Keywords: information extraction, opinion analysis, sentiment analysis, visualization

33 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

34 Technical papers: software architecture I: Design Pattern Rationale Graphs: linking design to source



Elisa L. A. Baniassad, Gail C. Murphy, Christa Schwanninger

May 2003 Proceedings of the 25th International Conference on Software Engineering

Publisher Site

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, index terms

A developer attempting to evolve a system in which design patterns have been applied can benefit from knowing which code implements which design pattern. For instance, the developer may be able to understand the purpose, or to assess the flexibility of the code, more quickly. The degree to which the developer benefits depends upon their understanding of the pattern. Achieving an in-depth understanding of even a simple pattern can be difficult as pattern descriptions span several pages of text, a ...

35 Systems: An architecture for anaphora resolution

Elaine Rich, Susann LuperFoy

February 1988 Proceedings of the second conference on Applied natural language processing



Additional Information: full citation, abstract, references, citings

In this paper, we describe the pronominal anaphora resolution module of Lucy, a portable English understanding system. The design of this module was motivated by the observation that, although there exist many theories of anaphora resolution, no one of these theories is complete. Thus we have implemented a blackboard-like architecture in which individual partial theories can be encoded as separate modules that can interact to propose candidate antecedents and to evaluate each other's proposals.

36

Flexible mixed-initiative dialogue management using concept-level confidence



measures of speech recognizer output

Kazunori Komatani, Tatsuya Kawahara

July 2000 Proceedings of the 17th conference on Computational linguistics - Volume 1

Full text available: pdf(608,30 KB) Additional Information: full citation, abstract, references, citings

We present a method to realize flexible mixed-initiative dialogue, in which the system can make effective confirmation and guidance using concept-level confidence measures (CMs) derived from speech recognizer output in order to handle speech recognition errors. We define two concept-level CMs, which are on content-words and on semantic-attributes, using 10-best outputs of the speech recognizer and parsing with phrase-level grammars. Content-word CM is useful for selecting plausible interpretatio ...

37 Cyc: toward programs with common sense

Douglas B. Lenat, R. V. Guha, Karen Pittman, Dexter Pratt, Mary Shepherd August 1990 Communications of the ACM, Volume 33 Issue 8

Full text available: pdf(3.98 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Cyc is a bold attempt to assemble a massive knowledge base (on the order of 108 axioms) spanning human consensus knowledge. This article examines the need for such an undertaking and reviews the authos' efforts over the past five years to begin its construction. The methodology and history of the project are briefly discussed, followed by a more developed treatment of the current state of the representation language used (epistemological level), techniques for efficient ...

38 The correction of ill-formed input using history-based expectation with applications to speech understanding



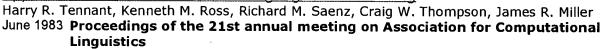
Pamela K. Fink, Alan W. Biermann

January 1986 Computational Linguistics, Volume 12 Issue 1

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, citings

A method for error correction of ill-formed input is described that acquires dialogue patterns in typical usage and uses these patterns to predict new inputs. Error correction is done by strongly biasing parsing toward expected meanings unless clear evidence from the input shows the current sentence is not expected. A dialogue acquisition and tracking algorithm is presented along with a description of its implementation in a voice interactive system. A series of tests are described that show the ...

39 Applications: Menu-based natural language understanding



Full text available: pdf(715.69 KB) Publisher Site

Additional Information: full citation, abstract, references, citings

This paper describes the NLMenu System, a menu-based natural language understanding system. Rather than requiring the user to type his input to the system, input to NLMenu is made by selecting items from a set of dynamically changing menus. Active menus and items are determined by a predictive left-corner parser that accesses a semantic grammar and lexicon. The advantage of this approach is that all inputs to the NLMenu System can be understood thus giving a 0% failure rate. A companion system t ...

An intelligent approach to handling imperfect information in concept-based natural language gueries



Vesper Owei

July 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 3

Full text available: pdf(5.44 MB) Additional Information: full citation, abstract, references, index terms

Missing information, imprecision, inconsistency, vagueness, uncertainty, and ignorance abound in information systems. Such imperfection is a fact of life in database systems. Although these problems are widely studied in relational database systems, this is not the case in conceptual query systems. And yet, concept-based query languages have been proposed and some are already commercial products. It is therefore imperative to study these problems in concept-based query languages, with a view to ...

Keywords: ambiguous query, anaphoric query, concept-based query, conceptual query language, elliptical query, imperfect queries, incomplete information, inconsistency, inexplicit query, missing information, natural language interface, natural language query, semantically mismatched query

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